

BEST AVAILABLE COPY

PATENT ABSTRACTS OF JAPAN

(11)Publication number : 04-015685

(43)Date of publication of application : 21.01.1992

(51)Int.Cl.

G09G 3/32

(21)Application number : 02-119210

(71)Applicant : MITSUBISHI ELECTRIC CORP

(22)Date of filing : 09.05.1990

(72)Inventor : ANDO HIROSHI

KITAGAWA TAKESHI

(54) LIGHT EMITTING DIODE DISPLAY DEVICE

(57)Abstract:

PURPOSE: To make an illumination display by the color mixing of desired color tones in addition to two different light emission colors and limited color mixing, and also enable an illumination display which changes continuously into a different color tone by providing a control means which varies pulses for dynamic driving in pulse width continuously and respectively by light emission colors.

CONSTITUTION: This device is equipped with the control means which is constituted by arraying LED lamps in matrix and sets and varies continuously the pulse widths of the pulses for driving the LEDs dynamically by the light emission colors independently of one another. The LED display device 4 which is thus constituted sets and varies the pulse widths of the pulses, which drive LED lamps 3 where at least two kinds of LEDs 2c and 2d for different light emission colors are put in the same package to constitute one dot by the light emission colors, independently on one another. Consequently, the illumination display by the color mixing of desired color tones and the illumination display which changes continuously into a color of different color tone are made in addition to the illumination display in at least two kinds of different light emission color and limited mixed color.

